

PTO/SB/08b(08-03)

Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		Complete If Known	
		<i>Application Number</i>	10/743,722
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		<i>Filing Date</i>	December 24, 2003
		<i>First Named Inventor</i>	DUMITRAS et al
		<i>Art Unit</i>	2614
		<i>Examiner Name</i>	Not assigned
		<i>Attorney Docket Number</i>	2777/3276
Sheet	1	of	2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DNW/		Jungwoo Lee and Bradley W. Dickinson, "Temporally Adaptive Motion Interpolation Exploiting Temporal Masking in Visual Perception," <i>IEEE Transactions on Image Processing</i> , vol. 3, No. 5, pp. 513-526, September 1994.	
/DNW/		Austin Lan et al, "Scene-context-dependent reference-frame placement for MPEG video coding", <i>IEEE Transactions on Circuits and Systems for Video Systems for Video Technology</i> , vol. 9, no. 3, April 1999	
/DNW/		Jungwoo Lee et al., "Rate-distortion optimized frame type selection for MPEG encoding," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 7, no. 3, pp. 501-510, June 1997.	
/DNW/		Tamer Shanableh et al., "The importance of the bi-directionally predicted pictures in video streaming," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 11, no. 3, pp. 402-414, March 2001.	
/DNW/		W.A.C. Fernando et al., "Scene adaptive video encoding for MPEG and H.263+ video," <i>IEEE Trans. on Consumer Electronics</i> , vol. 47, no. 4, pp. 76-769, November 2001.	
/DNW/		Xiaodong Gu et al, "Implementing dynamic GOP in video encoding," in <i>IEEE International Conference on Multimedia and Expo (ICME)</i> , Baltimore 2003, vol. 1, pp. 349-352.	
/DNW/		Chung-Lin Huang et al, "A robust scene-change detection method for video segmentation", <i>IEEE Transaction on Circuits and Systems for Video Technology</i> , vol. 11, no. 12, December 2001	
/DNW/		Gregory J. Conklin et al, "A comparison of temporal scalability techniques," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 9, no. 6, pp. 909-919, September 1999.	
/DNW/		H.C. Liu et al., "Automatic determination of scene changes in MPEG compressed video," in <i>Proc. IEEE Symp. Circuits and Systems</i> , Seattle, 1995, vol. 1, pp. 764-767.	
/DNW/		J. Lee et al., "Scene-adaptive motion interpolation structures based on temporal masking in human visual perception," in <i>Proc. SPIE Conference on Visual Comm. and Image Processing</i> , Cambridge, 1993, pp. 499-510.	

Examiner Signature	/David Werner/	Date Considered	05/10/2007
-----------------------	----------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/743,722		
		Filing Date	December 24, 2003		
		First Named Inventor	DUMITRAS et al		
		Art Unit	2614		
		Examiner Name	Not assigned		
Sheet	2	of	2	Attorney Docket Number	2777/3276

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/DNW/		A. Hanjalic, "Shot-boundary detection: Unraveled and resolved?," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 12, no. 2, pp. 90-105, February 2002.	
/DNW/		T. Vlachos, "Cut detection in video sequences using phase correlation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
/DNW/		U. Gargi et al., "Performance characterization of video shot change detection methods," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 10, no. 1, pp. 1-13, February 2000.	
/DNW/		R.M. Ford et al., "Metrics for shot boundary detection in video sequences," <i>Multimedia Systems</i> , vol. 8, pp. 37-46, 2000.	
/DNW/		B-L Yeo et al., "Rapid scene analysis on compressed video," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 5, no. 6, pp. 533-544, December 1995.	
/DNW/		H.J. Zhang et al., "Video parsing and browsing under compressed data," <i>Multimedia Tools and Applications</i> , vol. 1, no. 1, pp. 89-111, March 1995.	
/DNW/		Z. Cernekova et al., "Shot detection in video sequences using entropy-based metrics," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 3, pp. 421-424.	
/DNW/		B. Shahraray, "Scene change detection and content-based sampling of video sequences," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 2-13.	
/DNW/		J. Bescos et al., "Multidimensional comparison of shot detection algorithms," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 2, pp. 401-403.	
/DNW/		J. Meng et al., "Scene change detection in a MPEG compressed video sequence," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 14-25.	

Examiner Signature	/David Werner/	Date Considered	05/10/2007
-----------------------	----------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/743,722
Filing Date	December 24, 2003
First Named Inventor	DUMITRAS et al.
Art Unit	2614
Examiner Name	Not assigned
Attorney Docket Number	2777/3276

NON PATENT LITERATURE DOCUMENTS

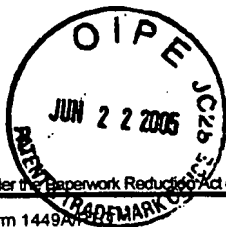
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		J. Lee and B.W. Dickinson, "Scene-adaptive motion interpolation structures based on temporal masking in human visual perception," in <i>Proc. SPIE Conference on Visual Comm. and Image Processing</i> , Cambridge, 1993, pp. 499-510.	
		A. Hanjalic, "Shot-Boundary Detection: Unraveled and resolved?," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 12, no. 2, pp. 90-105, February 2002.	
		C-L. Huang and B-Y Liao, "A robust scene-change detection method for video segmentation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
		T. Vlachos, "Cut detection in video sequences using phase correlation," <i>IEEE Signal Processing Letters</i> , vol. 7, no. 7, pp. 173-175, July 2000.	
		U. Gargi, R. Kasturi, and S.H. Strayer, "Performance characterization of video shot change detection methods," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 10, no. 1, pp. 1-13, February 2000.	
		R.M. Ford, C. Robson, D. Temple, and M. Genach, "Metrics for shot boundary detection in video sequences," <i>Multimedia Systems</i> , vol. 8, pp. 37-46, 2000.	
		B-L Yeo and B. Liu, "Rapid Scene analysis on compressed video," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , vol. 5, no. 6, pp. 533-544, December 1995.	
		H.J. Zhang, C.Y. Low, and S.W. Smoliar, "Video parsing and browsing using compressed data," <i>Multi-media Tools and Applications</i> , vol. 1, no. 1, pp. 89-111, March 1995.	
		H.C. Liu and G. Zick, "Automatic determination of scene changes in MPEG compressed video," in <i>Proc. IEEE Symp. Circuits and Systems</i> , Seattle, 1995, vol. 1, pp. 764-767.	
		Z. Cernikova, C. Nikou, and I. Pitas, "Shot detection in video sequences using entropy-based metrics," in <i>Proceedings of IEEE International Conference on Image Processing</i> , 2002, vol. 3, pp. 421-424.	
		B. Shahraray, "Scene change detection and content-based sampling of video sequences," in <i>Digital Video Compression: Algorithms and Technologies</i> , 1995, vol. SPIE-2419, pp. 2-13.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08 (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

Complete If Known

Application Number	10/743,722
Filing Date	12/24/2003
First Named Inventor	Adriana DUMITRAS
Art Unit	2614
Examiner Name	to be assigned
Attorney Docket Number	13316/3276

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/DNW/	1	US- 5,548,346 A	08/20/1996	Mimura <i>et al.</i>	
/DNW/	2	US- 5,825,421 A	10/20/1998	Tan	
/DNW/	3	US- 6,333,949 B1	12/25/2001	Nakagawa <i>et al.</i>	
/DNW/	4	US- 6,480,670 B1	11/12/2002	Hatano <i>et al.</i>	
/DNW/	5	US- 6,600,872 B1	07/29/2003	Yamamoto <i>et al.</i>	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
/DNW/	6	EP 0 658 057 A2	06/14/1995	Sharp Kabushiki Kaisha		
/DNW/	7	DE 197 37 835 A1	03/04/1999	Siemens AG		Abs.
/DNW/	8	WO 00/67486 A1	11/09/2000	Koninklijke Philips Electronics N.V.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/DNW/	9	Accame, M. <i>et al.</i> , "AN INTEGRATED APPROACH TO BLOCK BASED MOTION ESTIMATION FOR VIDEO CODING," IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, IEEE INC., New York, US, vol. 44, no. 1, pp. 52-61, XP000779250, ISSN: 0098-3063, see paragraph '2.A.A', February 1998
/DNW/	10	Mietens, S. <i>et al.</i> , "New scalable three-stage motion estimation technique for mobile MPEG encoding," Multimedia and Expo, 2002, ICME '02. Proceedings. 2002 IEEE International Conference on Lausanne, Switzerland, 26-29 Aug. 2002, Piscataway, NJ, USA, IEEE, US, vol. 1, pages 685-688, XP010604461, ISBN: 0-7803-7304-9, paragraph '0003!', August 26, 2002

Examiner
Signature

/David Werner/

Date
Considered

05/10/2007

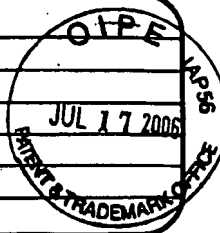
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/743,722
		Filing Date	12/24/2003
		First Named Inventor	Adriana Dumitras
		Art Unit	2614
		Examiner Name	
(Use as many sheets as necessary)		Attorney Docket Number	13316/3276
Sheet	1	of	1



U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
/DNW/	1	US 2002/0131493 A1	09-19-2002	HIDEKI, F. <i>et al.</i>	
/DNW/	2	US 2003/0169817 A1	09-11-2003	SONG, B. <i>et al.</i>	
/DNW/	3	US 2004/0047418 A1	03-11-2004	TOURAPIS, A. <i>et al.</i>	

FOREIGN PATENT DOCUMENTS					
Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)			
/DNW/	4	EP 0762778 A	03-12-1997	SONY CORPORATION	
/DNW/	5	WO 2004/010709 A	01-29-2004	KONINKLIJKE, PHILIPS ELECTRONICS N.V. <i>et al.</i>	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
/DNW/	6	MITCHELL, J. L. <i>et al.</i> , "MPEG video compression standard," 1996, p. 79, Chapman and Hall, XP002367660		
/DNW/	7	OHM, J. R., "Digitale Bildcodierung," 1995, pp. 127-130, Springer-Verlag, Heidelberg, XP002350026		✓
/DNW/	8	YUEN, M. <i>et al.</i> , "A survey of hybrid MC/DPCM/DCT video coding distortions," <i>Signal Processing</i> , 11-30-1998, pp. 247-278, vol. 70, no. 3, Elsevier Science Publishers B.V., Amsterdam, NL, XP004144969, ISSN: 0165-1684		
/DNW/	9	HOANG, D.T. <i>et al.</i> , "Efficient algorithms for MPEG video compression," 2002, p. 141, paragraph 7.2.2, JOHN WILEY & SONS, XP002367661		
/DNW/	10	RICHARDSON, I. E. G., "H.264 and MPEG-4 VIDEO COMPRESSION, video coding for next-generation multimedia," 2003, pp. 175, 176 & 210, WILEY, XP002367662		
/DNW/	11	LAN, A. <i>et al.</i> , "Scene-context-dependent reference-frame placement for MPEG video coding," <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , April 1999, pp. 478-489, Vol. 9, No. 3, New York, US, XP000824572, ISSN: 1051-8215		

Examiner Signature	/David Werner/	Date Considered	05/11/2007-
--------------------	----------------	-----------------	-------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.